

**MULTICORE SOLDERS**

A Division of Henkel Loctite Adhesives Limited  
Health & Regulatory Affairs

**MCF800**  
MCF800 1.00 EN 01.04.04

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC, and provides information relating to the safe handling and use of the product.

---

**1. PRODUCT AND COMPANY IDENTIFICATION**

---

<b>Product Code</b>	MCF800
<b>Manufacturer/Supplier</b>	HLA Multicore
<b>Address</b>	Kelsey House, Wood Lane End, Hemel Hempstead, Hertfordshire, HP2 4RQ, UK
<b>Phone Number</b>	+44 (0) 1442 233233
<b>Fax Number</b>	+44 (0) 269554
<b>Emergency Phone Number</b>	+44 (0) 1442 233233

---

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

---

**Nature** Flux residue remover

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS</b>	<b>EINECS</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
2-(2-Butoxyethoxy) ethanol	112-34-5	203-961-6	85 - 95	R36	Xi

---

**3. HAZARD IDENTIFICATION**

---

The solvent vapour will irritate the nose, throat and respiratory tract and depress the central nervous system. The solvent vapour and the liquid will cause conjunctival irritation and possibly corneal damage.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Remove patient to fresh air. In case of respiratory difficulty seek medical attention.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

Rinse mouth with water taking care not to swallow. Do not induce vomiting or give anything to drink if the patient has difficulty swallowing. Seek medical advice.

---

**5. FIRE FIGHTING MEASURES**

---

Use water spray, alcohol resistant foam, dry powder or carbon dioxide. Under fire conditions the products will release irritant fumes containing oxides of carbon. Fire fighters should wear full protective clothing and self-contained, positive pressure breathing apparatus.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

Extinguish all sources of ignition. Personnel clearing up the spillage should wear plastic or rubber gloves, eye protection and suitable respiratory protection. Large spillages should be contained by a temporary bund and prevented from entering drains, sewers and water courses. Transfer the spilt liquid to a suitable container. Small spillages should be soaked up in with an inert absorbent material and transferred to a suitable closed container. After the spillage has been cleared up the area should be flushed with water.

**MULTICORE SOLDERS**

A Division of Henkel Loctite Adhesives Limited  
Health & Regulatory Affairs

**MCF800**  
MCF800 1.00 EN 01.04.04

---

**7. HANDLING AND STORAGE**

---

**Handling**

Use in a well ventilated area. Avoid contact with skin and eyes. Do not eat, drink or smoke during use.

**Storage**

The product should be stored in a cool, well ventilated area. Store only in the original containers. Do not store in containers made from aluminium or its alloys, copper or its alloys, or galvanised mild steel. Gaskets and seals should be made of butyl rubber.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**Occupational exposure limits**

None assigned.

Wear suitable eye protection and plastic or rubber gloves.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Mild, characteristic
<b>pH</b>	Not applicable
<b>Boiling Range/Point (°C)</b>	184
<b>Melting point (°C)</b>	Not determined
<b>Flash Point (CC) (°C)</b>	105 (DIN EN 22719)
<b>Autoignition Temperature (°C)</b>	225
<b>Specific Gravity</b>	0.949
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Miscible
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (hPa @ 25°C)</b>	0.4
<b>Explosion Limits (%)</b>	0.9 - 5.9
<b>VOC Content</b>	100%

---

**10. STABILITY AND REACTIVITY**

---

The product is stable. It will react vigorously with strong oxidising agents.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

Exposure to vapour will irritate the nose, throat and respiratory tract.

LC<sub>50</sub> (inhalation, rat): 14200 mg/l/4h

**Skin**

According to OECD Test Method 404, a single 4h semi-occlusive application to intact rabbit skin produced minimal signs of irritation (mean scores for erythema or oedema less than 2).

LD<sub>50</sub> (dermal, rabbit): 2800mg/kg

**Eyes**

Eye contact may cause irritation. According to OECD Test Method 405, a single application to the rabbit eye produced conjunctival irritation and corneal damage (epithelial and stromal).

**Ingestion**

The product has a low order of acute toxicity. LD<sub>50</sub> (oral, rat) : 7300 - 9600 mg/kg



**MULTICORE SOLDERS**

A Division of Henkel Loctite Adhesives Limited  
Health & Regulatory Affairs

**MCF800**  
MCF800 1.00 EN 01.04.04

---

**12. ECOLOGICAL INFORMATION**

---

**Mobility**

2-(2-Butoxyethoxy)ethanol has a low volatility. It is water soluble and will partition to the aqueous phase. It is likely to volatilise from soil but only slowly from water. It is poorly absorbed by soils or sediments.

**Persistence/Degradability**

2-(2-Butoxyethoxy)ethanol is expected to be readily biodegradable.

**Bio-accumulation**

2-(2-Butoxyethoxy)ethanol is not expected to bioaccumulate.

**Ecotoxicity**

2-(2-Butoxyethoxy)ethanol is rated as non-hazardous to aquatic species.

Island silverside	96h LC <sub>50</sub>	2000 mg/l
Bluegill sunfish	96h LC <sub>50</sub>	1300 mg/l
Goldfish	24h LC <sub>50</sub>	2700 mg/l
Daphnia	48h NOEC	>100 mg/l
Algae	24h NOEC	>100 mg/l

---

**13. DISPOSAL CONSIDERATIONS**

---

This product should be disposed of in accordance with local and national legislation. In the UK this is the *Special Waste Regulations 1996*. The recommended disposal method is controlled incineration.

Empty containers should be cleaned by appropriate methods and re-used or disposed of to landfill or by incineration. Labels should not be removed from containers until they have been cleaned of hazardous residues. Do not incinerate closed containers. Do not cut, puncture or weld on or near contaminated containers.

European Waste Catalogue: 07 07 04 - other organic solvents, washing liquids and mother liquors.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>AIR (IATA)</b>	Not regulated
<b>Sea (IMO)</b>	Not regulated
<b>Road (ADR)/Rail(RID)</b>	Not regulated

---

**15. REGULATORY INFORMATION**

---

**Contains  
Labelling  
Information**

Not applicable  
Irritant



**R phrases**

R36 Irritating to eyes.

**S phrases**

S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

**Voluntary**

Not applicable.

**MULTICORE SOLDERS**

A Division of Henkel Loctite Adhesives Limited  
Health & Regulatory Affairs

**MCF800**  
MCF800 1.00 EN 01.04.04

**15. REGULATORY INFORMATION****Labelling****Hazardous Components in Product for EC**

Component Name	R Phrases
2-(2-Butoxyethoxy) ethanol R36	R36 Irritating to eyes.

**Applicable EC Directives**

Directive 98/24/EC on the protection of the health and safety of workers from the risk related to exposure to chemicals at work (Chemical Agents Directive)

**Applicable UK Legislation and guidance**

The Health and Safety at Work etc. Act 1974

The Control of Substances Hazardous to Health Regulations 2000

HS(G) 37	An Introduction to Local Exhaust Ventilation
HS(G) 97	A Step by Step Guide to the COSHH Regulations
HS G 193	COSHH essentials: Easy steps to control chemicals.
L5	General Approved Code of Practice to the COSHH Regulations
EH40	Occupational Exposure Limits (revised annually)

**16. OTHER INFORMATION****MSDS data revised**

1 April 2004

Prepared by:

Barry Chase  
Senior Specialist  
Health & Regulatory Affairs - Europe

Further Information may be obtained from:-

HLA Multicore  
Wood Lane End  
Hemel Hempstead  
Herts HP2 4RQ]  
United Kingdom

Tel: +44 (0) 1442 233233  
Fax: +44 (0) 1442 269554

The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither HLA Multicore nor its subsidiary companies accept any liability arising out of the use of the information provided here or the use, application or processing of the product(s) described herein. Attention of users is drawn to the possible hazards from improper use of the product(s).

This safety data sheet was prepared in accordance with Commission Directive 2001/59/EC adapting to technical progress for the 28th time Council Directive 67/548/EEC and Commission Directive 1999/45/EC.